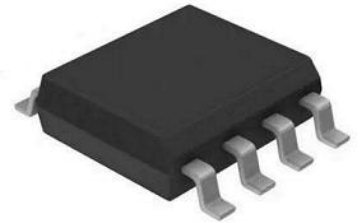


2.8V TVS Diode Array For ESD and Latch-Up Protection



APPLICATION

- ◆ Base Station
- ◆ Analog Inputs
- ◆ Switch Systems
- ◆ 10/100/1000 Ethernet
- ◆ WAN/LAN Equipment
- ◆ Desktops, Servers, and Notebooks
- ◆ Low Voltage Interfaces



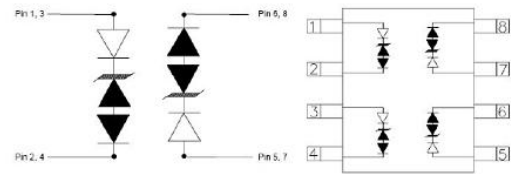
IEC COMPATIBILITY

Package: SO-8

- ◆ IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- ◆ IEC61000-4-5 (Lightning) 10A (8/20µs)

FEATURES

- ◆ 100W peak pulse power (8/20µs)
- ◆ Protects two line pairs (four lines)
- ◆ Ultra low leakage: nA level
- ◆ Low operating voltage: 2.8V
- ◆ Ultra low clamping voltage
- ◆ JEDEC SO-8 package



Circuit and Pin Schematic

SO-8 Outline

Electrical Characteristics

Parameter	Symbol	Value	Unit
Peak Pulse Power (tp=8/20µs waveform)	P _{ppp}	100	W
Peak Pulse Current (8/20µs)	I _{pp}	10	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Electrical Characteristics

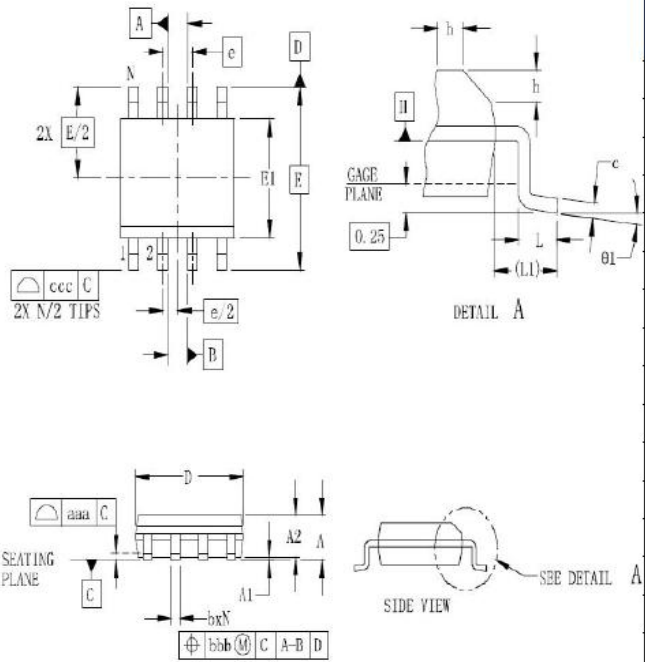
Part Number	VRWM	VBR	IR (max)	Co Max value	Vc @1A Max	Vc @ A Max	Ipp@8/20us	Ppp 8/20us	Delivery Time
	V	V	(µA)	pF	V	V	A max	W	Days
HAL2814S8	2.8	3	1	5	4	24	10	100	7days

Specifications are subject to change without notice

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2.8V TVS Diode Array For ESD and Latch-Up Protection

Package Mechanical Data



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.35		1.75	0.053		0.069
A1	0.10		0.25	0.004		0.010
A2	1.25		1.65	0.049		0.065
b	0.31		0.51	0.012		0.020
c	0.17		0.25	0.007		0.010
D	4.80	4.90	5.00	0.189	0.193	0.197
E1	3.80	3.90	4.00	0.150	0.154	0.157
E	6.00BSC			0.236BSC		
e	1.27BSC			0.050BSC		
h	0.25		0.50	0.010		0.020
L	0.40	0.72	1.04	0.016	0.028	0.041
L1	(1.04)			(0.041)		
N	8			8		
Ø1	0		8	0		8
	0.10			0.004		
	0.25			0.010		
H _E	0.20			0.008		

Ordering Information

Part Number	Qty per Reel	Reel Size	Package	Delivery Time
HAL2814S8	2500pcs	13inch	SO-8	7days

Specifications are subject to change without notice

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Tel: +86-755-27465585

HUAAN LIMITED

www.huaandz.com

Email: sales@huaandz.com